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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

		See Notification of Trans	emittel of International		
P3096 WO ORD	OR FURTHER ACTION	Preliminary Examination	n Report (Form PCT/IPEA/416)		
International application No. International filing date (da		,	date (day/month/year) 7.2002		
PCT/GB 03/02473	9.06.2003	00.07	.2002		
International Patent Classification (IPC) or both r A61M16/04	ational classification and IPC	;			
Applicant .					
KAPITEX HEALTHCARE LIMITED et a	al.				
This international preliminary examination Authority and is transmitted to the appropriate to the appro	ation report has been pre plicant according to Article	pared by this International 36.	al Preliminary Examining		
	2. This REPORT consists of a total of 6 sheets, including this cover sheet.				
This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					
These annexes consist of a total of 4 sheets.					
3. This report contains indications relati	ing to the following items:				
I ⊠ Basis of the opinion			,		
II Priority					
III 🛛 Non-establishment of op	nion with regard to novel	y, inventive step and ind	lustrial applicability		
IV Lack of unity of invention	F .		12 1. 122		
V 🛛 Reasoned statement und citations and explanation	and to novelly inventive step or industrial applicability:				
VI ☐ Certain documents cited					
VII Certain defects in the international application					
VIII	the international applicati	on			
Date of submission of the demand	. Da	te of completion of this repo	ort		
13.01.2004	07	.07.2004			
Name and mailing address of the international preliminary examining authority:	Au	thorized Officer	Southern September September 1		
European Patent Office	В	orowski, A			
Olli Toll 140 89 2399 - 0 Tx: 523650	Sepmu d	lephone No. +49 89 2399-2	2758		
Fax: +49 89 2399 - 4465	16	iepholie No. 740 00 2000 2			

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No.

PCT/GB 03/02473

1	Rasis	of the	report
I.	Dasis		. Opo.

With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Desc	cription, Pages	
	1, 2, 3	4-10	as originally filed filed with telefax on 18.06.2004
	Clair	ms, Numbers	
		5 (part), 10 (part), 11	received on 05.02.2004 with letter of 03.02.2004
5 (part), 6-9, 10 (part)		••	filed with telefax on 18.06.2004
	υ (p.	arty, o o, to (party	
	Drav	wings, Figures	
	1A,	1B, 2, 3	as originally filed
2.	With lang	n regard to the languag Juage in which the inter	ge, all the elements marked above were available or furnished to this Authority in the rational application was filed, unless otherwise indicated under this item.
	The	se elements were avai	lable or furnished to this Authority in the following language: , which is:
		the language of a tran	slation furnished for the purposes of the international search (under Rule 23.1(b)).
		the language of public	ation of the international application (under Rule 48.3(b)).
		the language of a tran Rule 55.2 and/or 55.3	slation furnished for the purposes of international preliminary examination (under).
3.	Wit inte	h regard to any nucleo emational preliminary e	tide and/or amino acid sequence disclosed in the international application, the xamination was carried out on the basis of the sequence listing:
		contained in the interr	national application in written form.
		filed together with the	international application in computer readable form.
		furnished subsequent	tly to this Authority in written form.
		furnished subsequent	tly to this Authority in computer readable form.
		The statement that the	ne subsequently furnished written sequence listing does not go beyond the disclosure oplication as filed has been furnished.
		The statement that the listing has been furnis	ne information recorded in computer readable form is identical to the written sequence
4. The amendments have resulted in the cancellation of:			
		the description,	pages:
		the claims,	Nos.:
		the drawings,	sheets:

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5.		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).						
		(Any replacement sheet contareport.)	ining s	uch amendn	nents must be referred to under item 1 and annexed to this			
6.	Add	dditional observations, if necessary:						
III.	Nor	n-establishment of opinion wi	ith reg	ard to nove	ity, inventive step and industrial applicability			
1.		ne questions whether the claimed invention appears to be novel, to involve an inventive step (to be non- vious), or to be industrially applicable have not been examined in respect of:						
		the entire international applica	tion,					
	\boxtimes	claims Nos. 10 11						
		because:						
		the said international application not require an international pre			ns Nos. relate to the following subject matter which does on (specify):			
	☒	the description, claims or draw unclear that no meaningful opi	ings (i	<i>indicate parti</i> ould be form	cular elements below) or said claims Nos. 11 are so ed (specify):			
		see separate sheet						
		the claims, or said claims Nos. could be formed.	. are s	o inadequate	ely supported by the description that no meaningful opinion			
	\boxtimes	no international search report	has be	en establish	ed for the said claims Nos. 10,11			
2.	or a	A meaningful international preliminary examination cannot be carried out due to the failure of the nucleotide and or amino acid sequence listing to comply with the standard provided for in Annex C of the Administrative Instructions:						
		the written form has not been	furnish	ed or does n	not comply with the Standard.			
		the computer readable form ha	as not	been furnish	ed or does not comply with the Standard.			
٧.	Rea cita	soned statement under Artic tions and explanations supp	le 35(2 orting	2) with rega such stater	rd to novelty, inventive step or industrial applicability;			
1.	Stat	ement						
	Nov	relty (N)	Yes: No:	Claims Claims	1-9			
	Inve	entive step (IS)	Yes: No:	Claims Claims	1-9			
	Indu	ustrial applicability (IA)	Yes: No:	Claims Claims	1-9			

2. Citations and explanations

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see separate sheet

Re Item III

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Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

- III.1 Claims 10 and 11 relate to subject-matter considered by this Authority to be covered by the provisions of Rule 67.1(iv) PCT, as it discloses a method for treatment of the human or animal body by surgery: a method for mounting a cannula in a tracheostomy (decision of the Board of Appeal T182/90 should be observed). Consequently, no opinion will be formulated with respect to the industrial applicability of the subject-matter of these claims (Article 34(4)(a)(i) PCT).
- III.2 Furthermore claim 11 does not meet the requirements of Article 6 PCT in that the matter for which protection is sought is not clearly defined. Said claim contains a reference to the drawing. According to Rule 6.2(a) PCT, claims should not contain such references except where absolutely necessary, which is not the case here.

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

The document D4 was not cited in the international search report. A copy of the document is appended hereto.

D4: US-A-4 489 723 (ELLIOT SIMONS; BOULOS ROBERT) 25 December 1984 (1984-12-25)

Document **D4** is regarded as being the closest prior art to the subject-matter of claim 1, and shows s tracheostomy cannula mounting for assisting in the mounting of a cannula within a stoma of a tracheostomy patient comprising a generally planar sheet portion provided with an aperture therein of suitable size and shape to engage a channel portion of a tracheostomy cannula in interference fit so as to present a rearward mounting face adapted in use to lie against the skin of the tracheostomy patient in the vicinity of the stoma, wherein the material from which the sheet is fabricated comprises silicone rubber at least in the vicinity of the mounting face.

The subject-matter of claim 1 differs from this known device in that the material from

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which the sheet is fabricated comprises a tacky silicone gel material.

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The subject-matter of claim 1 is therefore new (Article 33(2) PCT).

The problem to be solved by the present invention may be regarded as how to provide a more effective, reusable air seal between a tracheal cannula and a tracheostomy.

The solution to this problem proposed in claim 1 of the present application is considered as involving an inventive step (Article 33(3) PCT) for the following reasons:

- Document D4 teaches a use of Vaseline or the like lubricants to be employed between the silicone sealing member and the throat surface in order to provide a water tight seal about the tracheal stoma. Such additional substances can however irritate the skin and are more complicated in use;
- Document D1 (US-A-3 640 741) discloses a sealing ring made from a tacky gel to be used for a slow release of medications to the patient's skin around a stoma (colostomy, ileostomy). However the sealing ring of D1 comprises a material, which is not silicone and is completely soluble, therefore the ring cannot be reused. Furthermore the document teaches, that silicone is not suitable for the specific application, as it does not dissolve. D1 does not mention tacky silicone;
- An application of tacky silicone gel material for sealing purposes is not known from the prior art.

Claims 2-9 are dependent on claim 1 and as such also meet the requirements of the PCT with respect to novelty and inventive step.

- V.3 Independent claim 1 should have been written in the two-part form in accordance with Rule 6.3(b) PCT, with those features known from the prior art (document D1) being placed in the preamble (Rule 6.3(b)(i) PCT) and with the remaining features being included in the characterising part (Rule 6.3(b)(ii) PCT).
- V.4 The features of the claims should have been provided with reference signs placed in parentheses (Rule 6.2(b) PCT).

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druckexemplar AMENDED CLAIMS

[Received by the International Bureau on 28 November 2003 (28.11.2003); original claims 1-12 replaced by amended claims 1-1 (3 pages)]

- A tracheostoma cannula mounting for assisting in the mounting of a 1. cannula within a stoma of a tracheostoma patient comprising a generally planar sheet portion provided with an aperture therein of suitable size and shape to engage a channel portion of a tracheostoma cannula in interference fit so as to present a rearward mounting face adapted in use to lie against the skin of the tracheostoma patient in the vicinity of the stoma, wherein the material from which the sheet is fabricated comprises 10 tacky silicone gel material at least in the vicinity of the mounting face.
 - A tracheostoma cannula mounting in accordance with claim 1 wherein 2. the inner edge defining the aperture in the mounting member presents a surface of tacky gel material to contact with the cannula in use.
 - A tracheostoma cannula mounting in accordance with claim 1 or claim 2 3. wherein the sheet portion comprise a tacky gel layer in a multi-layer sheet.
 - A tracheostoma cannula mounting in accordance with claim 1 or claim 2 4. wherein the sheet portion consists essentially solely of the tacky gel material, save for an optional thin layer of non-tacky protective material at edges and/or faces of the sheet portion which are adapted to lie externally in use and/or be removed prior to use.
 - A tracheostoma cannula mounting in accordance with any preceding 5. claim wherein the aperture in the sheet portion of the mounting member is generally circular and shaped and sized to engage the outer

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circumference of the channel portion of a generally cylindrical cannula in interference fit.

- 6. A tracheostoma cannula mounting in accordance with claim 5 wherein
 the mounting member is generally circular, such that the mounting
 member comprises an annular portion of sheet material.
 - 7. A tracheostoma cannula mounting in accordance with any preceding claim wherein the sheet material is 1 to 7 mm thick.
 - 8. A tracheostoma cannula mounting in accordance with any preceding claim further comprising a removable non-tacky protective layer over the mounting surface which can readily be removed by a user to expose the tacky surface of the gel to allow the mounting member to be applied.
- 9. A tracheostoma cannula comprising a central channel portion adapted to be received through a stoma, a forward portion adapted to sit externally of the stoma in use and a mounting portion adapted to sit within the trachea abutting an internal surface of the stoma in use, and comprising a flange portion of increased cross section to the body portion so as to assist in retaining the cannula within the stoma, and further comprising a mounting in accordance with any preceding claim comprising a sheet portion provided with an aperture so sized and shaped as in use to be retained around the channel portion of the cannula immediately external of the stoma in interference fit, so as to present a mounting face engageable upon the external surface of the tracheal region of the wearer in the vicinity of the stoma in use.
- 10. A method of sealably mounting a cannula in a tracheostoma comprises
 the steps of inserting a cannula into the stoma, applying a mounting in

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accordance with any of claims 1 to 9 therearound so as to present the mounting face to the skin of the external surface of the tracheal region of a wearer in the vicinity of the stoma, applying pressure to effect a releasable seal between mounting face and skin.

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11. A tracheostoma cannula mounting, a tracheostoma cannula assembly, or a method substantially as hereinbefore described with reference to the accompanying drawings.